

What is claimed is:

- Sub A17
1. A transparent, biaxially oriented polyester film comprising:
 - (A) a base layer, at least 80% by weight of which is composed of a thermoplastic polyester; and
 - 5 (B) at least one outer layer, wherein the outer layer is composed of a polymer, or of a mixture of polymers comprising: at least 40% by weight of ethylene 2,6-naphthalate units; optionally up to 40% by weight of ethylene terephthalate units; and optionally up to 60% by weight of units from aliphatic diols, cycloaliphatic diols, aromatic diols, aliphatic dicarboxylic acids, cycloaliphatic dicarboxylic acids, aromatic dicarboxylic acids, or a combination thereof,
 - 10 wherein the glass transition temperature (T_g value) of the polyester film is above the T_g value of the base layer but below the T_g value of the outer layer, and at least one film surface has a surface tension of from 35 to 65 mN/m or has been provided with a functional coating of thickness from 5 to 100 nm or both.
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 2. A film as claimed in claim 1, wherein the outer layer comprises at least 65% by weight of ethylene 2,6-naphthalate units.
 3. A film as claimed in claim 1, wherein the outer layer comprises at least 70% by weight of ethylene 2,6-naphthalate units.
 - 20 4. A film as claimed in claim 1 or 2, which has an oxygen permeability of less than $80 \text{ cm}^3/(\text{m}^2 \text{ bar d})$.
 5. A film as claimed in claim 1, which has an oxygen permeability less than $75 \text{ cm}^3/(\text{m}^2 \text{ bar d})$.

6. A film as claimed in claim 1, which has an oxygen permeability of less than $70 \text{ cm}^3/(\text{m}^2 \text{ bar d})$.
7. A film as claimed in claim 1, wherein the outer layer has a thickness of from 0.2 to 6 μm .
- 5 8. A film as claimed in claim 1, wherein the outer layer has a thickness of from 0.3 to 5.5 μm .
9. A film as claimed in claim 1, wherein the outer layer has a thickness of from 0.3 to 5.0 μm .
- 10 10. A film as claimed in claim 1, which has two layers and is composed of the base layer and the outer layer.
11. A film as claimed in claim 1, having two outer layers, one on each side of the base layer.
12. A film as claimed in claim 1, wherein at least one of the outer layers has been pigmented.
- 15 13. A film as claimed in claim 1, wherein the surface tension is achieved by means of corona treatment.
14. A film as claimed in claim 1, wherein the functional coating comprises one or more substances/compositions which are selected from the group consisting of acrylates, ethylvinyl alcohols, PVDC, water glass, hydrophilicized polyesters, vinyl acetates, polyvinyl acetates, polyurethanes, the alkali metal and alkaline-earth metal salts of $\text{C}_{10}\text{-C}_{18}$ fatty acids, butadiene copolymers with acrylonitrile or methyl methacrylate, methacrylic acid, acrylic acid and methacrylates and acrylates.
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Let's 15. A transparent, biaxially oriented polyester film comprising:

(A) a base layer, at least 80% by weight of which is composed of a thermoplastic polyester; and

5 (B) at least one outer layer, wherein the outer layer is composed of a polymer, or of a mixture of polymers comprising: at least 5% by weight of ethylene 2,6-naphthalate units; more than 40% by weight of ethylene terephthalate units; and 0 to < 55% by weight of units from aliphatic diols, cycloaliphatic diols, aromatic diols, aliphatic dicarboxylic acids, cycloaliphatic dicarboxylic acids, aromatic dicarboxylic acids, or
10 a combination thereof,

wherein the glass transition temperature (T_g 2 value) of the polyester film is above the T_g 2 value of the base layer but below the T_g 2 value of the outer layer, and at least one film surface has a surface tension of
15 from 35 to 65 mN/m or has been provided with a functional coating of thickness from 5 to 100 nm or both.

16. A film as claimed in claim 1, at least one side of which has been metallized or has been coated with SiO_x or Al_xO_y .

17. A process for producing a transparent, biaxially oriented polyester film as claimed in claim 1, which comprises:

20 (A) coextruding a film from the base layer and from the one or more outer layers;

(B) orienting the film biaxially;

(C) heat-setting the oriented film; and

25 (D) functionalizing at least one film surface at any time after completion of the coextrusion step.

18. A method for packaging foodstuffs and other consumable items, comprising packaging said foodstuffs and other consumable items in a film as claimed in claim 1.
- 5 19. A method for making a photographic film, which comprises making said photographic film with a film as claimed in claim 1.
20. A method for making a graphic film, which comprises making said graphic film with a film as claimed in claim 1.
21. A method for making a laminatable film, which comprises making said laminatable film with a film as claimed in claim 1.
- 10 22. A method for making a metallized film, which comprises making said metallized film with a film as claimed in claim 1.
23. A method for making a printable film, which comprises making said printable film with a film as claimed in claim 1.